Foaming Agents

Expanded Polystyrene / **Isopentane**

Isopentane: Foaming Agent for EPS, XPS, and Polyurethane.

Isopentane is a liquid hydrocarbon obtained from petroleum that is mainly used for the manufacture of rigid polyurethane but one that can also be used in EPS and XPS. It is characterized by its low boiling point and relative similarity to old fashioned and banned blowing agents used in the industry, such as R11 and R141b, but without the greenhouse effect on the ozone layer that these had.

When used in polyurethane, foams with lower density, good dimensional stability, and mechanical properties are obtained.

Chemical name:

2-methylbutane

CAS Number:

78-78-4

Technical Characteristics:

> Extremely flammable and colorless liquid hydrocarbon.
> Good chemical stability.
> Intermediate thermal conductivity.
> Does not affect the ozone layer and low global warming potential (GWP).
> Product with high impact with regard to SEVESO regulation due to its high flammability and low boiling point.

Packaging:

- Drums
- Roll drums
- Containers - Tank

Applications:

Polyurethane is mainly for the manufacture of sandwich panels or mixed with other hydrocarbons.

EPS

XPS

Properties:

Chemical Formula	C5H12	
Molecular Weight	72,15	g/mol
Boiling Point	28	°C
Vapor pressure (20ºC)	0,8	bara
Vapor pressure (50ºC)	2,1	bara
Liquid Density (20ºC)	0,62	kg/l
Liquid Density (50ºC)	0,59	kg/l
Thermal conductivity (20ºC)	13	mW/mK
LEL (Lower Explosive Limit)	1,3	% volume
UEL (Upper Explosive Limit)	7,6	% volume

More information:

If you want more information about our products, contact us.

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